

SURFACE MOUNT NPN SILICON TRANSISTOR



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CXT2222A type is an NPN silicon transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for small signal general purpose and switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	75	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Continuous Collector Current	IC	600	mA
Power Dissipation	PD	1.2	W
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	104	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =60V		10	nA
ICBO	V _{CB} =60V, T _A =125°C		10	μΑ
ICEV	V _{CE} =60V, V _{EB} =3.0V		10	nA
I _{EBO}	V _{EB} =3.0V		10	nA
BVCBO	Ι _C =10μΑ	75		V
BVCEO	I _C =10mA	40		V
BVEBO	Ι _Ε =10μΑ	6.0		V
V _{CE(SAT)}	I _C =150mA, I _B =15mA		0.3	V
V _{CE(SAT)}	I _C =500mA, I _B =50mA		1.0	V
V _{BE(SAT)}	I _C =150mA, I _B =15mA	0.6	1.2	V
V _{BE(SAT)}	I _C =500mA, I _B =50mA		2.0	V
h _{FE}	V _{CE} =10V, I _C =0.1mA	35		
h _{FE}	V _{CE} =10V, I _C =1.0mA	50		
h _{FE}	V _{CE} =10V, I _C =10mA	75		
h _{FE}	V _{CE} =10V, I _C =150mA	100	300	
h _{FE}	V _{CE} =1.0V, I _C =150mA	50		
h _{FE}	V _{CE} =10V, I _C =500mA	40		
fT	V _{CE} =20V, I _C =20mA, f=100MHz	300		MHz
Cob	V _{CB} =10V, I _E =0, f=1.0MHz		8.0	pF
C _{ib}	V_{EB} =0.5V, I _C =0, f=1.0MHz		25	pF
				R6 (23-February 2010)

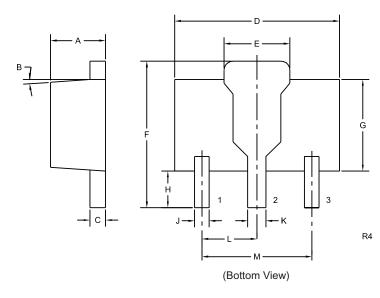


CXT2222A

SURFACE MOUNT NPN SILICON TRANSISTOR

ELECTRICAL CHARACTERISTICS - Continued: (T _A =25°C unless otherwise noted)				
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
h _{ie}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz	2.0	8.0	kΩ
h _{ie}	V _{CE} =10V, I _C =10mA, f=1.0kHz	0.25	1.25	kΩ
h _{re}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz		8.0	x10 ⁻⁴
h _{re}	V _{CE} =10V, I _C =10mA, f=1.0kHz		4.0	x10 ⁻⁴
h _{fe}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz	50	300	
h _{fe}	V _{CE} =10V, I _C =10mA, f=1.0kHz	75	375	
h _{oe}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz	5.0	35	μS
h _{oe}	V _{CE} =10V, I _C =10mA, f=1.0kHz	25	200	μS
rb'C _C	V _{CB} =10V, I _E =20mA, f=31.8MHz		150	ps
NF	V _{CE} =10V, I _C =100μA, R _S =1.0kΩ, f=1.0kHz		4.0	dB
t _d	V _{CC} =30V, V _{BE} =0.5, I _C =150mA, I _{B1} =15mA		10	ns
t _r	V _{CC} =30V, V _{BE} =0.5, I _C =150mA, I _{B1} =15mA		25	ns
t _s	V _{CC} =30V, I _C =150mA, I _{B1} =I _{B2} =15mA		225	ns
t _f	V_{CC} =30V, I _C =150mA, I _{B1} =I _{B2} =15mA		60	ns

SOT-89 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INC	HES	MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
A	0.055	0.067	1.40	1.70
В	4	0	4	0
С	0.014	0.018	0.35	0.46
D	0.173	0.185	4.40	4.70
E	0.064	0.074	1.62	1.87
F	0.146	0.177	3.70	4.50
G	0.090	0.106	2.29	2.70
Н	0.028	0.051	0.70	1.30
J	0.014	0.019	0.36	0.48
K	0.017	0.023	0.44	0.58
Ĺ	0.059		1.	50
М	0.1	18	3.	00
		S	DT-89 (R	EV: R4)

LEAD CODE:

1) Emitter 2) Collector 3) Base

> MARKING: FULL PART NUMBER

> > R6 (23-February 2010)

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- · Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.com/wwdistributors

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Product End of Life Notification

PDN ID:	PDN01274
Notification Date:	2/19/25
Last Buy Date:	8/19/25
Last Shipment Date	2/19/26

Summary:All devices manufactured in the SOT-89 package are discontinued and now classified as End of Life (EOL). Available options are:

1. Orders will be accepted for products with available inventory.

2. Last Time Buy (LTB) may be available for certain items.

3. A replacement product not available at the time of this notice, may be under development.

Please contact your Central Semiconductor Customer Service Representative at 001.631.435.1110

Although Central Semiconductor makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

BCX51 BK N/A BCX51 TR N/A BCX51-10 BK N/A BCX51-10 TR N/A BCX51-16 BK N/A BCX51-16 TR N/A BCX52 TR N/A BCX52-16 TR N/A BCX53-16 TR N/A BCX53-16 TR N/A BCX54-10 TR N/A BCX54-10 TR N/A BCX54-16 FR N/A BCX55-10 TR N/A BCX55-10 TR N/A BCX55-16 FR N/A BCX55-16 FR N/A BCX56-16 FR N/A BCX68-16 TR N/A CBCX68-16 FR N/A CBCX	Central Part Number	Suggested Replacement
BCX51-10 BK N/A BCX51-10 TR N/A BCX51-16 BK N/A BCX51-16 TR N/A BCX52 TR N/A BCX52-10 TR N/A BCX52-16 BK N/A BCX52-16 TR N/A BCX52-16 TR N/A BCX52-16 TR N/A BCX53 BK N/A BCX53 TR N/A BCX53-16 TR N/A BCX53-16 TR N/A BCX53-16 TR N/A BCX54-16 BK N/A BCX54-16 TR N/A BCX54-16 TR N/A BCX55-16 BK N/A BCX55-16 TR N/A BCX55-16 BK N/A BCX56-16 BK N/A CBCX68-16 BK N	BCX51 BK	N/A
BCX51-10 TR N/A BCX51-16 BK N/A BCX51-16 TR N/A BCX52 TR N/A BCX52-10 TR N/A BCX52-16 BK N/A BCX52-16 TR N/A BCX52-16 TR N/A BCX52-16 TR N/A BCX53 BK N/A BCX53 TR N/A BCX53-10 TR N/A BCX53-16 TR N/A BCX53-16 TR N/A BCX53-16 TR N/A BCX54-16 TR N/A BCX54-16 TR N/A BCX55-16 TR N/A BCX55-10 TR N/A BCX55-10 TR N/A BCX55-16 TR N/A BCX55-16 TR N/A BCX55-16 TR N/A BCX56-16 BK N/A BCX56-16 TR N/A BCX56-16 TR N/A CBCX68-16 BK N/A CBCX68-16 BK N/A CBCX68-16 BK N/A CBCX68-16 BK <t< td=""><td>BCX51 TR</td><td>N/A</td></t<>	BCX51 TR	N/A
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CBCX68-25 BKN/ACBCX69 BKN/A	CBCX68-16 BK	N/A
CBCX69 BK N/A	CBCX68-16 TR	N/A
	CBCX68-25 BK	N/A
*** CONTINUED ***	CBCX69 BK	N/A
	*** CONTINUED ***	

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



https://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01274
Notification Date:	2/19/25
Last Buy Date:	
Last Shipment Date	2/19/26

*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CBCX69 TR	N/A
CBCX69-16 BK	N/A
CBCX69-16 TR	N/A
CBCX69-25 BK	N/A
CBCX69-25 TR	N/A
CS89M BK	N/A
CS89M TR	N/A
CS89N BK	N/A
CS89N TR	N/A
CXDM1002N BK	N/A
CXDM1002N TR	N/A
CXDM4060N BK	N/A
CXDM4060N TR	N/A
CXDM4060P BK	N/A
CXDM4060P TR	N/A
CXDM6053N BK	N/A
CXDM6053N TR	N/A
CXR1-04 BK	N/A
CXR1-04 TR	N/A
CXSH-4 BK	N/A
CXSH-4 TR	N/A
CXTA14 BK	N/A
CXTA14 TR	N/A
CXTA27 BK	N/A
CXTA27 TR	N/A
CXTA42 BK	N/A
CXTA42 TR	N/A
CXTA44 BK	N/A
CXTA44 TR	N/A
CXTA62 BK	N/A
CXTA62 TR	N/A
CXTA64 BK	N/A
CXTA64 TR	N/A
CXTA92 BK	N/A
CXTA92 TR	N/A
CXT2222A BK	N/A
CXT2222A TR	N/A
CXT2907A BK	N/A
CXT2907A TR	N/A
CXT3019 BK	N/A
CXT3019 TR	N/A
CXT3090L BK	N/A N/A
CXT3090L TR	N/A N/A
*** CONTINUED ***	1 1/ 2 1
CONTINUED	

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Last Shipment Date	2/19/26

*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CXT3150 BK	N/A
CXT3150 TR	N/A
CXT3410 BK	N/A
CXT3410 TR	N/A
CXT3820 TR	N/A
CXT3904 BK	N/A
CXT3904 TR	N/A
CXT3904 TR13	N/A
CXT3906 BK	N/A
CXT3906 TR	N/A
CXT4033 BK	N/A
CXT4033 TR	N/A
CXT491E BK	N/A
CXT491E TR	N/A
CXT5401 BK	N/A
CXT5401 TR	N/A
CXT5551 BK	N/A
CXT5551 TR	N/A
CXT5551HC BK	N/A
CXT5551HC TR	N/A
CXT591E BK	N/A
CXT591E TR	N/A
CXT7090L BK	N/A
CXT7090L TR	N/A
CXT7410 BK	N/A
CXT7410 TR	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

N/A

CXT7820 TR

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

Mouser Electronics

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Central Semiconductor:

CXT2222A TR TIN/LEAD